

ASSIGNMENT 1

Textbook Assignment: "Underwater Mine Maintenance System," chapter 1, pages 1-1 through 1-36.

- 1-1. The underwater mine maintenance system is described in which of the following publications?
 1. NAVSEA SW550-AA-MMI-010
 2. NAVSEA SW550-FO-PMS-010
 3. NAVSEA SW023-AB-WHS-010
 4. Each of the above
- 1-2. Mine system overhaul, screening, and repair specifications are used primarily by which of the following activities?
 1. Depots
 2. Fleet activities
 3. Intermediate maintenance activities
 4. Organizational maintenance activities
- 1-3. MOMAG activities perform which of the following types of maintenance?
 1. Organizational level
 2. Intermediate level
 3. Operational level
 4. Depot level
- 1-4. Mines may be stowed what total number of authorized degrees of assembly configurations?
 1. One
 2. Five
 3. Three
 4. Six
- 1-5. Assembly-level components are divided into four groups in accordance with which of the following publications?
 1. NAVSEA SW023-AB-WHS-010
 2. NAVSEA SW550-AA-MMI-010
 3. NAVSEA SW550-FO-PMS-010
 4. NAVSEA QAP 100
- 1-6. The four groups of assembly-level components and the maintenance requirements for each can be found in which of the following publications?
 1. NAVSEA SW550-AA-MMI-010
 2. NAVSEA SW023-AB-WHS-010
 3. NAVSEA SW550-FO-PMS-010
 4. NAVSEA QAP 100
- 1-7. All phases of mine assembly are covered by what total number of report forms?
 1. Five
 2. Six
 3. Three
 4. Four
- 1-8. Instructions for the use of supplements A, B, E, F, and J are detailed on the back of each form. Which of the following publications supersedes these instructions?
 1. NAVSEA SW550-AA-MMI-010
 2. NAVSEA SW550-AA-MMI-030
 3. NAVSEA SW023-AB-WHS-010
 4. NAVSEA SW550-FO-PMS-010
- 1-9. Some assembly-level items are only reported when there is a reject. Which of the following supplement forms should you use for a reject?
 1. A
 2. B
 3. E
 4. F
- 1-10. Explosive items damaged in storage or handling should be reported in accordance with OPNAV-INST 5120.1. Which of the following supplement forms should also be completed for these items?
 1. F
 2. E
 3. B
 4. A

- 1-11. The supplement F form is only used with which of the following weapons?
1. Mk 60
 2. Mk 62
 3. Mk 65
 4. Mk 67
- 1-12. Discrepancies dealing with improper packaging require the completion of which of the following supplement forms?
1. B
 2. E
 3. F
 4. J
- 1-13. During the class-B testing of a group of 100 Mk 10 Mod 1 sterilizers for a lot of Mk 56 mines, failure of 40 sterilizers would require what type of report or supplement?
1. Message report
 2. Supplement E
 3. Supplement F
 4. UNITREP
- 1-14. To document assembly and maintenance data on a mine and to provide operational settings to that mine, you must complete what type of report or form?
1. Supplement B
 2. Supplement E
 3. Ammunition Transaction Report
 4. Assembly/Maintenance Master Record
- 1-15. Metal corrosion is the deterioration of metal as it combines with which of the following elements?
1. Water
 2. Oxygen
 3. Hydrogen
 4. Metal oxides
- 1-16. In addition to oxygen, several other factors influence corrosion. Which of the following elements most commonly influence corrosion?
1. Moisture and salt
 2. Moisture and hydrogen
 3. Dissimilar metals and the grain direction of metal
 4. Type of metal and the grain direction of metal
- 1-17. Corrosion on steel water-tight openings of the Mk 40 DST is removed by using which of the following types of material?
1. Hand-powered tools
 2. Cleaning solvent only
 3. Sandblasting and cleaning solvent
 4. Abrasive cloth and cleaning solvent
- 1-18. To protect the watertight openings and the exposed threads while sandblasting a mine case, which of the following precautions should be taken?
1. Tape flanges and apply grease to threads
 2. Lightly grease flanges and exposed threads
 3. Install blanking plates and grease threads
 4. Install blanking plates and extra nuts and screws to cover threads
- 1-19. Which of the following types of material should be used for sandblasting?
1. 20 to 40 mesh mineral grit
 2. 20 to 40 mesh black grit
 3. 40 to 80 mesh mineral grit
 4. All of the above
- 1-20. Sandblasting grit can be used more than once, provided it still displays some abrasiveness.
1. True
 2. False
- 1-21. To prevent a static charge from building up while sandblasting an explosive mine case, what safety precaution should you ensure has been observed?
1. Ground the nozzle of the sandblasting hose
 2. Ground yourself by wearing leg stats
 3. Ground the sandblast compressor
 4. Ground the mine case

- 1-22. To remove corrosion from painted aluminum surfaces, you should use which of the following materials?
1. Wire brush
 2. Abrasive cloth
 3. Cleaning solvent only
 4. Sandblasting and cleaning solvent
- 1-23. Corrosion on stainless steel is indicated by which of the following effects?
1. Pitting or scoring
 2. Dark iron oxide
 3. Rough surface
 4. White powder
- 1-24. When using phosphoric acid in the repair of stainless steel surfaces, you must wear which of the following protective equipment?
1. Goggles
 2. Rubber apron
 3. Rubber gloves
 4. All of the above
- 1-25. External thermal-coated bombs are not considered thermally protected and are restricted from issue to aircraft carriers if they are missing more than what total number of square inches of thermal coating?
1. 7
 2. 2
 3. 3
 4. 6
- 1-26. A basic paint job on a mine consists of what total number of (a) primer coats and (b) finish coats?
1. (a) One (b) one only
 2. (a) One (b) two only
 3. (a) One (b) one or more
 4. (a) Two (b) one
- 1-27. The most commonly used primer is zinc chromate. When painting or sandblasting zinc chromate, what protective clothing must you wear?
1. Faceshield
 2. Respirator
 3. Leg stats
 - 4 Goggles

- 1-28. The reliability of a manual torque wrench can be improved by exercising the wrench what minimum number of times?
1. Five
 2. Two
 3. Six
 4. Eight
- 1-29. You should exercise a manual torque wrench at what percent of its rated range?
1. 90
 2. 80
 3. 60
 4. 50
- 1-30. When you are operating pneumatic torque wrenches, what is the working psi required to operate the tool?
1. 70
 2. 90
 3. 110
 4. 150
- 1-31. For the proper operation of a pneumatic torque wrench, it must be connected to an air supply that has which of the following components?
1. Moisture separator
 2. Air-pressure regulator
 3. Lubrication induction system
 4. All of the above
- 1-32. When connecting an extension cord, you should always connect the electrical power tool to the extension cord first.
1. True
 2. False
- 1-33. When unplugging an electrical power tool, you should always disconnect the tool from the extension cord first.
1. True
 2. False

1-34. When using an extension cord, the combined length of the tool's cord and the extension cord must NOT exceed what total number of feet?

1. 20
2. 30
3. 40
4. 50

1-35. The speed of electrical power tools used on explosive-loaded components must NOT exceed what total number of rpms?

1. 1,000
2. 1,500
3. 2,000
4. 2,500

1-36. When a wire brush attachment is used with a drill, what is the maximum diameter of the wheel?

1. 8 inches
2. 6 inches
3. 5 inches
4. 4 inches

IN ANSWERING QUESTIONS 1-37 THROUGH 1-40, SELECT THE TYPE OF SPRAY GUN DESCRIBED IN THE QUESTION. ANSWERS MAY BE USED MORE THAN ONCE OR NOT AT ALL.

- A. External mix
- B. Bleeder type
- C. Suction feed
- D. Internal mix

1-37. Which spray gun works on the same principle as an insect spray gun?

1. A
2. B
3. C
4. D

1-38. Which gun requires high air pressure?

1. A
2. B
3. C
4. D

1-39. The trigger controls only the fluid on which gun?

1. A
2. B
3. C
4. D

1-40. There is no pressure control on the air line of which gun?

1. A
2. B
3. C
4. D

1-41. A spray gun has what total number of main assemblies?

1. One
2. Two
3. Three
4. Four

1-42. Which part of the paint gun controls or regulates the flow of spray into the air stream?

1. Spreader adjustment valve
2. Air valve
3. Fluid tip
4. Air cap

IN ANSWERING QUESTIONS 1-43 THROUGH 1-46, SELECT THE SPRAY GUN CONTAINER USED FOR EACH PAINT JOB DESCRIBED IN THE QUESTION. ANSWERS MAY BE USED MORE THAN ONCE OR NOT AT ALL.

- A. Pressure tank
- B. Gravity-feed cup
- C. Suction-feed cup
- D. Pressure-feed cup

1-43. Spraying lacquer on small wall plaques.

1. A
2. B
3. C
4. D

1-44. Touch-up painting of equipment.

1. A
2. B
3. C
4. D

1-45. Painting small items that require fine adjustments and speed of application.

1. A
2. B
3. C
4. D

1-46. Small cups normally attached to the top or side of the gun.

1. A
2. B
3. C
4. D

1-47. An air compressor used for painting provides air pressure within a nominal range of what psi?

1. 50 to 75
2. 100 to 125
3. 150 to 175
4. 175 to 200

1-48. During spray painting, what item is used to remove moisture from the air lines?

1. Air transformer
2. Air transducer
3. Check valve
4. Spring valve

1-49. When you are painting a flat surface with a spray gun, what position of the gun relative to the surface being painted is normally recommended?

1. Hold the spray gun at a right angle and a uniform distance (normally 6 to 10 inches) from the surface
2. Hold the spray gun at a right angle and at least 12 inches from the surface
3. Hold the spray gun at a 45° angle and a uniform distance (normally 6 to 10 inches) from the surface
4. Hold the spray gun at 45° angle and at least 12 inches from the surface

1-50. In starting and stopping each stroke with a paint spray gun, what practice should you follow?

1. Squeeze the trigger before starting the stroke; stop the stroke before releasing the trigger
2. Squeeze the trigger before starting the stroke; release the trigger before stopping the stroke
3. Start the stroke before squeezing the trigger; release the trigger before stopping the stroke
4. Start the stroke before squeezing the trigger; stop the stroke before releasing the trigger

IN ANSWERING QUESTIONS 1-51 THROUGH 1-54, SELECT THE DEFECT THAT IS DESCRIBED IN THE QUESTION. ANSWERS MAY BE USED MORE THAN ONCE OR NOT AT ALL.

- A. Orange peel
- B. Blushing
- C. Peeling
- D. Bleeding

1-51. Wrong thinner.

1. A
2. B
3. C
4. D

1-52. Excessive moisture in the air.

1. A
2. B
3. C
4. D

1-53. Use of cheap spray materials.

1. A
2. B
3. C
4. D

1-54. Dirty surface.

1. A
2. B
3. C
4. D

1-55. When chemical compounds of a previously applied coat discolor the finish coat, this is referred to as what condition?

1. Runs
2. Peeling
3. Bleeding
4. Orange peel

1-56. While cleaning the spray gun (container type), you should place a cloth over the air cap and squeeze the trigger for which of the following reasons?

1. To clear a plugged spray gun
2. To spray solvent on the rag instead of the deck
3. To force more paint into the spray gun
4. To force paint back into the tank

IN ANSWERING QUESTIONS 1-57 THROUGH 1-60, SELECT THE POSSIBLE CAUSE FOR THE PROBLEM DESCRIBED IN THE QUESTION. ANSWERS MAY BE USED MORE THAN ONCE OR NOT AT ALL.

- A. Dirt on the air cap
- B. Bent valve stem
- C. Wrong size needle
- D. Clogged air vent in container lid

1-57. Air leaks from front of the gun.

1. A
2. B
3. C
4. D

1-58. Jerky spray (suction feed only).

1. A
2. B
3. C
4. D

1-59. Defective spray pattern.

1. A
2. B
3. C
4. D

1-60. Fluid leaks from front of gun.

1. A
2. B
3. C
4. D

1-61. The ingredient used to give color to paint is known as the

1. drier
2. vehicle
3. thinner
4. pigment

1-62. The liquid portion of the paint that acts as the binder is known by which two of the following terms?

1. Vehicle or base
2. Vehicle or bottom
3. Base or adhesive
4. Base or oil

1-63. Metallic compounds that are added to paint increase the ability to

1. mix
2. dry
3. bind
4. penetrate

1-64. The use of thinner with paint serves two purposes. One is to reduce the consistency of the paint for application by spraying or brushing. What is the other purpose?

1. To give a gloss finish once it is dried
2. To take oxygen from the air and add it to the oil
3. To increase the penetration of the paint, cutting down on the gloss
4. To decrease the active pigments, preventing caking and clogging

- 1-65. When no mechanical mixer is available, what is the best method for mixing paint?
1. Perform boxing only
 2. Mix with stir stick, then perform boxing
 3. Pour off vehicle, mix remainder, add vehicle in small amounts, then perform boxing
 4. Pour off vehicle, mix remainder, add all of the remaining vehicle at once, then perform boxing
- 1-66. Painting should NOT be done when the temperature is below what minimum temperature?
1. 12 °F
 2. 32 °F
 3. 42 °F
 4. 52 °F
- 1-67. For best painting results, paint when the temperature is between
1. 50 °F and 70 °F
 2. 55 °F and 75 °F
 3. 60 °F and 80 °F
 4. 65 °F and 85 °F
- 1-68. Spray painting equipment can produce several thousand volts of static electricity. When painting an explosive-loaded mine case, what should you do to eliminate this hazard?
1. Ground mine case only
 2. Ground spray gun nozzle only
 3. Ground mine case and spray gun nozzle to separate earth grounds
 4. Ground mine case and spray gun nozzle to the same earth ground
- 1-69. In the interest of good health when spray painting, you should wear clothes that fit (a) how at the neck, ankles, and wrist; and the parts of your body NOT covered by clothing should be protected (b) by what method?
1. (a) Loosely (b) vaseline
 2. (a) Loosely (b) protective cream
 3. (a) Tightly (b) vaseline
 4. (a) Tightly (b) protective cream
- 1-70. When spray painting the interior of a tank, the use of which of the following respirators will give you the best protection?
1. Supplied air
 2. Cartridge
 3. Filter
 4. Dust
- 1-71. For sandblasting operations, you should use which of the following respirators?
1. Supplied air
 2. Cartridge
 3. Filter
 4. Dust
- 1-72. Cadmium-mercury cell batteries should be stored at what temperature range where they will deteriorate at a normal rate?
1. 56 °F to 65 °F
 2. 65 °F to 80 °F
 3. 21 °F to 95 °F
 4. Ordinary ambient temperature
- 1-73. Batteries removed from their outer containers, but not from their polyethylene bags, are being thawed by which of the following procedures?
1. Normal thaw
 2. Standard rapid thaw
 3. Either normal or standard rapid thaw
 4. Alternate rapid thaw
- 1-74. Batteries failing class-B testing after thawing should be set aside what total time before retesting?
1. 12 hours
 2. 24 hours
 3. 36 hours
 4. 48 hours